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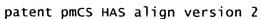
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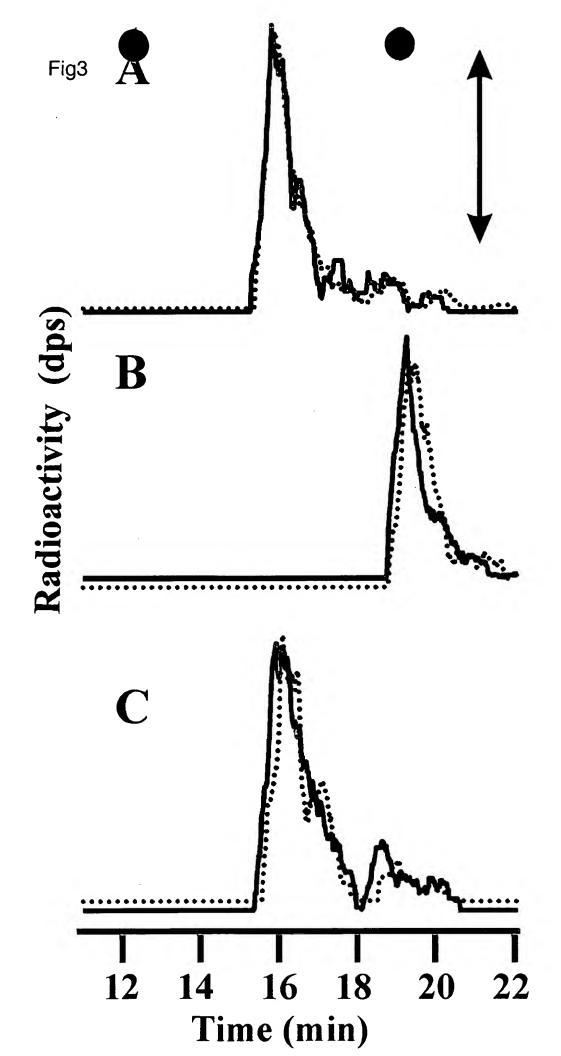
#### patent pmCS HAS align version 2

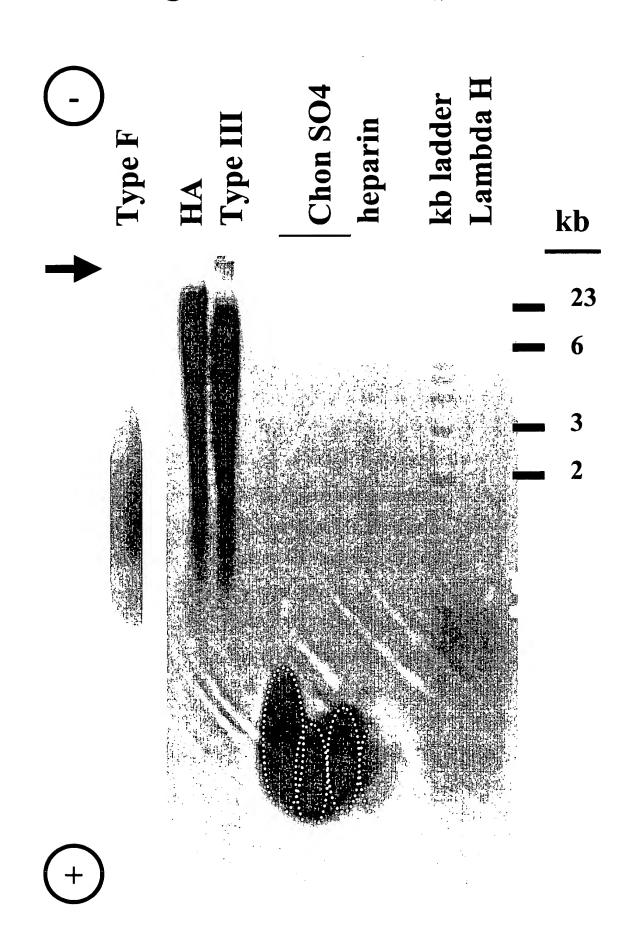
FIG. 1

PmCS PmHAS Consensus	MNTLSQAIKA	YNSNDYELAL YNSNDYQLAL YNSNDY#LAL	KLFEKSAEIY	GRKIVEFQIT	KCKEKLSAHP
PMCS PMHAS Consensus	51 YVS SVNSAHLSVN sVn	KEEKVNVCDS	SLDIATQLLL PLDIATQLLL pLDIATQLLL	SNVKKLVLSD	SEKNTLKNKW
PMCS PMHAS Consensus	KLLTEKKSEN	AEIRKVELVP AEVRAVALVP AE!RaVaLVP	KDFPKDLVLA	PLPDHVNDFT	WYKKRKKRLG
PmCS PmHAS Consensus	IKPEHQHVGL	SIIIPTFNRS SIIVTTFNRP SII!pTFNRp	AILSITLACL	VNQKTHYPFE	VIVTDDGSQE
PMCS PMHAS Consensus	DLSPIIRQYE	QKLDIKYVRQ NKLDIRYVRQ #KLDIrYVRQ	KDNGFQASAA	RNMGLRLAKY	DFIGLLDCDM
PMCS PMHAS Consensus	APNPLWVHSY	LTELLEDNDI VAELLEDDDL laELLED#Di	TIIGPRKYID	TQHIDPKDFL	NNASLLESLP
PmCS PmHAS Consensus	<b>EVKTNNSVAA</b>	TSKGNISLDW KGEGTVSLDW kgeGn!SLDW	RLEQFEKTEN	LRLSDSPFRF	FAAGNVAFAK
PmCS PmHAS Consensus	KWLNKSGFFD	EEFNHWGGED EEFNHWGGED EEFNHWGGED	VEFGYRLFRY	GSFFKTIDGI	MAYHQEPPGK
PmCS PmHAS Consensus	ENETDREAGK	SITLKIVKEK NITLDIMREK nITLdImrEK	VPYIYRKLLP	IEDSHINRVP	LVSIYIPAYN
PmCS PmHAS Consensus	CANYIQRCVD	SALNQTVVDL SALNQTVVDL SALNQTVVDL	<b>EVCICNDGST</b>	DNTLEVINKL	YGNNPRVRIM
PmCS PmHAS Consensus	SKPNGGIASA	SNAAVSFAKG SNAAVSFAKG SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDKTL
PmCS PmHAS Consensus	ACVYTTNRNV	NPDGSLIANG NPDGSLIANG NPDGSLIANG	YNWPEFSREK	LTTAMIAHHF	RMFTIRAWHL

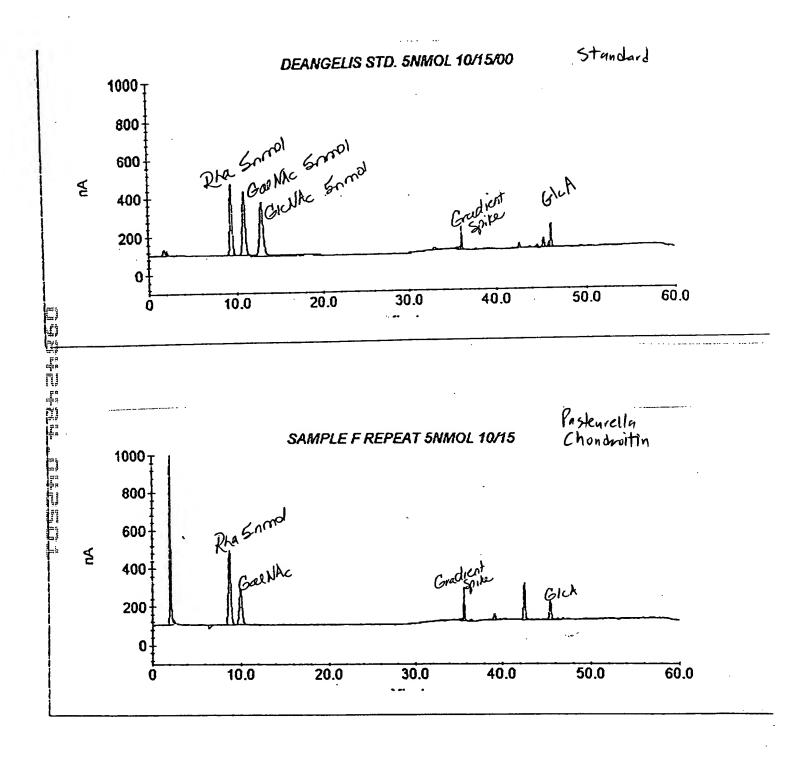


		pines thas a t	ight version		
PMCS PMHAS Consensus	TDGFNEKIEN	AVDYDMFLKL	SEVGKFKHLN SEVGKFKHLN SEVGKFKHLN	KICYNRVLHG	DNTSIKKLGI
PMCS PMHAS Consensus	QKKNHFVVVN	QSLNRQGITY	YNYDKFDDLD YNYDEFDDLD YNYDeFDDLD	<b>ESRKYIFNKT</b>	AEYQEEIDIL
PMCS PMHAS Consensus	KDIKIIQNKD	AKIAVSIFYP	NTLNGLVKKL NTLNGLVKKL NTLNGLVKKL	NNIIEYNKNI	FVIVLHVDKN
PMCS PMHAS Consensus	HLTPDIKKEI	LAFYHKHQVN	ILLNNDISYY ILLNNDISYY ILLNNDISYY	TSNRLIKTEA	HLSNINKLSQ
PMCS PMHAS Consensus	LNLNCEYIIF	DNHDSLFVKN	DSYAYMKKYD DSYAYMKKYD DSYAYMKKYD	VGMNFSALTH	DWIEKINAHP
PmCS PmHAS Consensus	PFKKLIKTYF	NDNDLKSMNV	KGASQGMFMK KGASQGMFMT KGASQGMFMk	YALAHELLTI	IKEVITSCOS
PmCS PmHAS Consensus	IDSVPEYNTE	DIWFQFALLI	LEKKTGHVFN LEKKTGHVFN LEKKTGHVFN	KTSTLTYMPW	950 ERKLQWTNEQ ERKLQWTNEQ ERKLQWTNEQ
PMCS PMHAS Consensus	IESAKRGENI	PVNKFIINSI	TL		

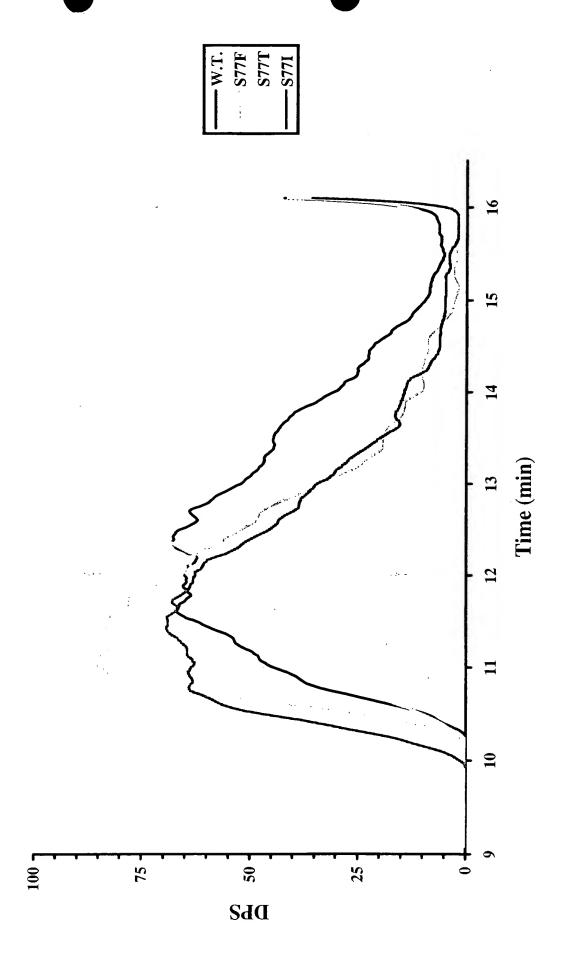




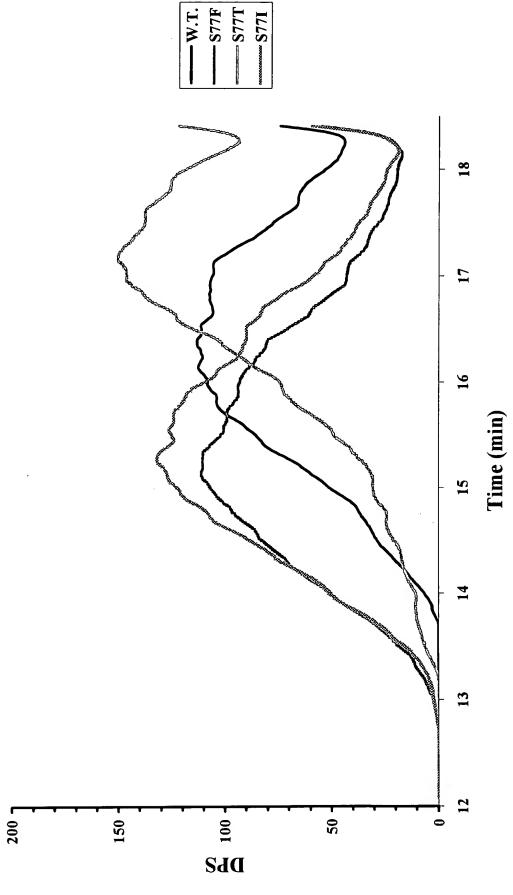
FG4.



HA Product Size (5 min assay)

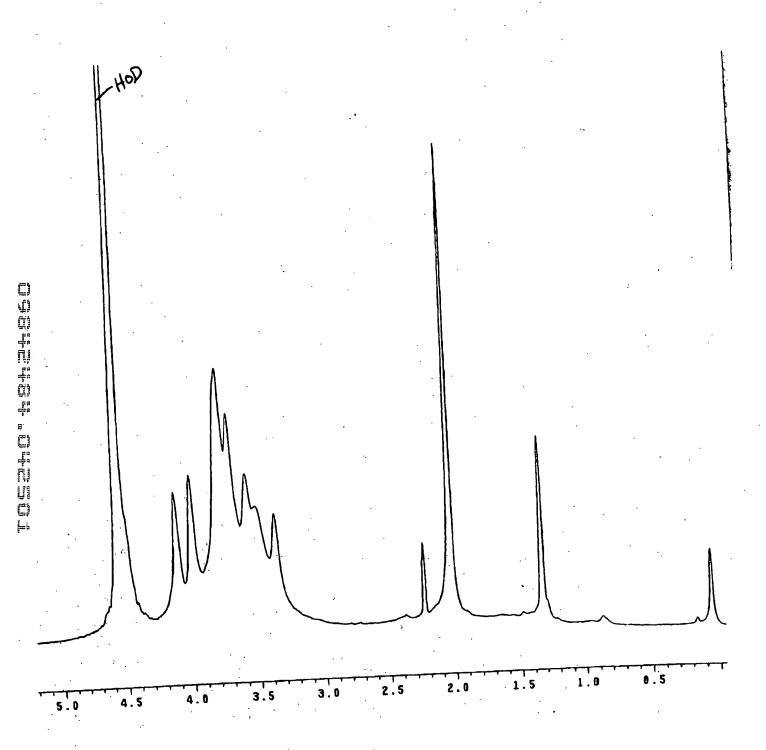


HA Product Size (30 min assay)



Fia. 7

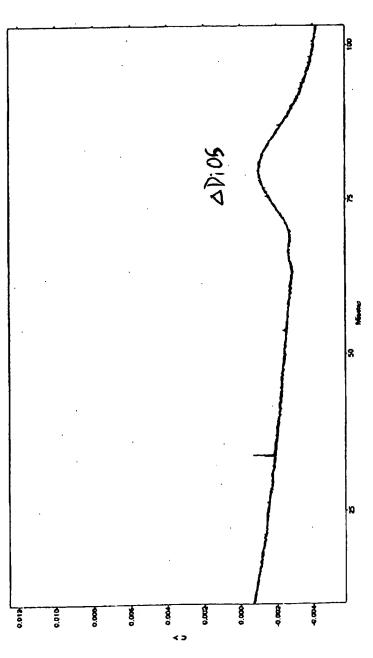
## NMR of Type F Polymer



ppm

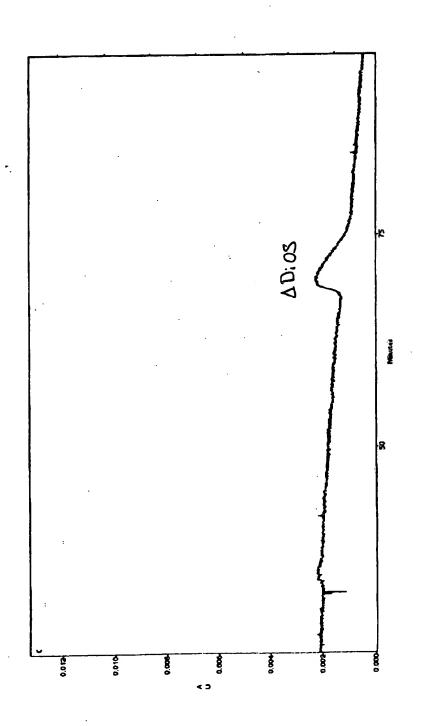
F14.8

Abcase treating



Minutes

ACase treatment



minutes